



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/774,790	02/10/2004	Gregg Nathan Buchl		9062

7590 09/26/2005

ANDREW F. BUCHL
10 WILLIAM LANE
BELLA VISTA, AR 72714

EXAMINER

PECHHOLD, ALEXANDRA K

ART UNIT PAPER NUMBER

3671

DATE MAILED: 09/26/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/774,790

Applicant(s)

BUCHL, GREGG NATHAN

Examiner

Alexandra K. Pechhold

Art Unit

3671

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 2/9/04, 7/16/04.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) _____ is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-11 is/are allowed.
- 6) ☒ Claim(s) 12, 16 and 20-22 is/are rejected.
- 7) ☒ Claim(s) 13-15 and 17-19 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Objections

1. Claims 13-15 are objected to because of the following informalities: "the function of shallow position", "the function of the working position", "the hydraulic power source", and "the set position" all lack antecedent basis. Appropriate corrections are required.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. **Claims 12, 16, and 20-22 are rejected under 35 U.S.C. 102(b) as being anticipated by Rossow et al (US 6,493,616).**

Regarding claim 12, Rossow discloses a manual electro-hydraulic selective depth control system comprising:

- a) a processor based unit (disclosed as controller 52 which can be a computer 53),
- b) a remote control unit (disclosed in the Abstract) ,
- c) a three position toggle input device (disclosed as control panel inputs 54, sensor inputs 56, hand/foot inputs 58).

Art Unit: 3671

Regarding claim 16, Rossow discloses a manual electro-hydraulic selective depth control system comprising:

- a) an input device (disclosed as control panel inputs 54, sensor inputs 56, hand/foot inputs 58),
- b) a device position sensor (disclosed as sensor 60),
- c) a processor control unit (disclosed as controller 52 which can be a computer 53),
- d) a console control unit (disclosed as display panel devices 67),
- e) a device position display unit (disclosed as a display (disclosed as a screen, a CRT, a plasma display, LEDs, an LCD display, etc. in column 6, lines 33-42),
- f) one or more hydraulic manifolds (disclosed as hydraulic actuators 64) having a solenoid valve (disclosed as solenoids 66).

Regarding claim 20, Rossow discloses a parallel pair of hydraulic cylinders (22), as well as a plurality of cylinders (32) in parallel, though only one of each is shown in FIG. 1.

Regarding claim 21, Rossow discloses a series cylinder set, since the cylinders (22) and cylinders (32) can be considered in series.

Regarding claim 22, Rossow discloses the cylinder (32) can be a single cylinder if desired.

Art Unit: 3671

Allowable Subject Matter

4. Claims 13-15 and 17-19 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims, as well as correcting the claim objections in claims 13-15 noted above.

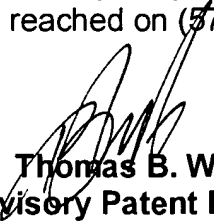
5. Claims 1-11 are allowed.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexandra Pechhold whose telephone number is (571) 272-6994. The examiner can normally be reached on Mon-Thurs. from 8:00am to 5:30pm and alternating Fridays from 8:00am to 4:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Thomas B. Will, can be reached on (571) 272-6998. The fax phone number for this Group is (703) 872-9306.


Thomas B. Will
Supervisory Patent Examiner
Group 3600

AKP
9/20/05